

Please type a plus sign (+) inside this box

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

## Complete if Known

Application Number	09/884,562
Filing Date	June 19, 2001
First Name of Inventor	Robert Mays
Group Art Unit	2633
Examiner Name	Unassigned
Attorney Docket Number	MYS-01-09-13

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
DP	B1	3,610,926		Kastner et al.	10-05-1971	
	B2	4,296,994		Quick et al.	10-27-1981	
	B3	4,359,259		Horner et al.	11-16-1982	
	B4	4,392,709		Horner et al.	07-12-1983	
	B5	4,807,978		Grinberg et al.	02-28-1989	
	B6	4,897,541		Phillips	01-30-1990	
	B7	4,991,150		Wixom	02-05-1991	
	B8	5,008,890		McFarlane	04-16-1991	
	B9	5,103,324		Brandstetter	04-07-1992	
	B10	5,245,623		McFarlane	09-14-1993	
	B11	5,325,386		Jewell et al.	06-28-1994	
	B12	5,369,415		Richard et al.	11-29-1994	
	B13	5,399,315		Paz-Pujalt et al.	03-21-1995	
	B14	5,411,709		Furuki et al.	05-02-1995	
	B15	5,442,433		Hoshino et al.	08-15-1995	
	B16	5,446,334		Gaffney	08-29-1995	
	B17	5,467,104		Furness, III et al.	11-14-1995	
	B18	5,521,913		Gridley	05-28-1996	
	B19	5,596,339		Furness, III et al.	01-21-1997	
	B20	5,602,679		Dolgoff et al.	02-11-1997	
	B21	5,622,868		Clarke et al.	04-22-1997	
	B22	5,659,327		Furness III, et al.	08-19-1997	
	B23	5,822,091		Baker	10-13-1998	
	B24	5,857,042		Robertson et al.	01-05-1999	
	B25	5,886,822		Spitzer	03-23-1999	
	B26	5,915,097		Chao	06-22-1999	
	B27	6,008,781		Furness, III et al.	12-28-1999	
	B28	6,079,252		Tabler et al.	06-27-2000	
	B29	6,081,430		La Rue	06-27-2000	
	B30	6,083,767		Tjaden et al.	07-04-2000	
	B31	6,284,546		Bryning et al.	09-04-2001	
	B32	6,304,894		Ford, Joseph Earl	10-16-2001	
	B33	6,449,066		Ams et al.	09-10-2002	
	B34	6,452,700		Mays Jr., Robert	09-17-2002	
Examiner Signature	D. Payne				Date Considered	6/21/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

---

+

PTO/SB/08A (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

Sheet

2

of

3

**Complete if Known**

Application Number

09/884,562

**Filing Dat**

**June 19, 2001**

**First Name and Invention**

Robert Mays

## Group Art Unit

2633

Examiner Name

Unassigned

Attorney Docket Number

**MYS-01-09-13**

## U.S. PATENT DOCUMENTS

[illegible]

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered.  
Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

DIPE  
APR 22 2004  
PATENT & TRADEMARK OFFICE

Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>			
		Application Number	09/884,562		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Filing Date	June 19, 2001		
		First Named Inventor	Robert Mays		
		Group Art Unit	2633		
		Examiner Name	Unassigned		
Sheet	3	of	3	Attorney Docket Number	MYS-01-09-13

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
DP	B37	Mays, Robert Jr. "Computer Backplane Employing Free-Space Optical Interconnect," U.S. Patent Application Publication 2002/0089709. Published on July 11, 2002.	
DP	B38	Mays, Robert Jr. "Network Switch Employing Free-Space Optical Switching Technology," U.S. Patent Application Publication 2002/0191598. Published on December 19, 2002.	
DP	B39	"United States Frequency Allocations-1996," <a href="http://www.autoid.org/documents/freqallochrt.pdf">http://www.autoid.org/documents/freqallochrt.pdf</a>	
Missing 6/21/04	B40	Mays, Robert Jr. "Filtering Technique For Free Space Interconnects," U.S. Patent Application Publication 2002/0024702. Published on February 28, 2002.	
DP	B41	Mays, Robert Jr. "Polarized-Holographic Filtering Providing Improved Extinction Ratio. U.S. Patent Application Publication 2002/0167698. Published on November 14, 2002.	
DP	B42	Stewart, James E. "Optical Principles and Technology For Engineers," Library of Congress Cataloging-in-Publication Data, 1996, pp. 45-81.	
DP	B43	Hariharan, P. "Optical Holography: Principles, Techniques, and Applications," Library of Congress Cataloging-in-Publication Data, 1996, pp. 213-123.	

RECEIVED

APR 23 2004

Technology Center 2600

Examiner Signature	<i>David P. Ryan</i>	Date Considered	<i>D. P. Ryan 6/21/04</i>
--------------------	----------------------	-----------------	---------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>09/884,562</td> </tr> <tr> <td>Filing Date</td> <td>June 19, 2001</td> </tr> <tr> <td>First Named Inventor</td> <td>Mays, Jr., Robert</td> </tr> <tr> <td>Group Art Unit</td> <td>2633</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>MYS-01-09-13</td> </tr> </table>		Application Number	09/884,562	Filing Date	June 19, 2001	First Named Inventor	Mays, Jr., Robert	Group Art Unit	2633	Examiner Name	Unassigned	Attorney Docket Number	MYS-01-09-13
Application Number	09/884,562														
Filing Date	June 19, 2001														
First Named Inventor	Mays, Jr., Robert														
Group Art Unit	2633														
Examiner Name	Unassigned														
Attorney Docket Number	MYS-01-09-13														
Sheet	1	of	2												

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
DP	AA	3,751,132		Croh	08-07-1973	
	AB	3,785,736		Spitz et al.	01-15-1974	
	AC	4,057,319		Ash et al.	11-08-1977	
	AD	4,710,605		Presby	12-01-1987	
	AE	4,817,207		Smith et al.	03-28-1989	
	AF	4,932,989		Presby	06-12-1990	
	AG	4,953,954		Ewbank et al.	09-04-1990	
	AH	5,011,254		Edwards et al.	04-30-1991	
	AI	5,140,657		Thylen	08-08-1992	
	AJ	5,256,851		Presby	10-26-1993	
	AK	5,446,572		Husbands et al.	08-29-1995	
	AL	5,446,816		Shiraishi et al.	08-29-1995	
	AM	5,515,194		Kanterakis et al.	05-07-1996	
	AN	5,677,778		Kanterakis	10-14-1997	
	AO	5,699,464		Marcuse et al.	12-16-1997	
	AP	5,772,720		Taira-Griffin et al.	06-30-1998	
	AQ	5,793,919		Payne et al.	08-11-1998	
	AR	5,809,198		Weber et al.	09-15-1998	
AS	5,832,147		Yeh et al.	11-03-1998		
AT	5,935,288		DiGiovanni et al.	08-10-1999		

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
DP	AU	WO	99/59766		Brown	11-16-1999		
DP	AV	WO	99/60192		Brown	11-25-1999		
DP	AW	WO	00/02700		Hoetzel	01-13-2000		
DP	AX	WO	00/04660		Amador et al.	01-27-2000		
DP	AY	WO	00/05026		Berndt	02-17-2000		
DP	AZ	WO	00/32327		Meyer et al.	06-08-2000		
DP	BA	WO	00/28359		Feth et al.	10-31-2000		

Examiner Signature <i>D. Payne</i>	Date Considered <i>6/21/04</i>
------------------------------------	--------------------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY

Please type a plus sign (+) inside this box → ☐

Approved for use through 10/31/99. OMB 0651-0031  
Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 2

Complete if Known

Application Number 09/884,562  
Filing Date June 19, 2001  
First Named Inventor Mays, Jr., Robert  
Group Art Unit 2633  
Examiner Name Unassigned  
Attorney Docket Number MYS-01-09-13

## U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
DP	BB	5,943,149		Cearns et al.	08-24-1999	
	BC	6,055,099		Webb	04-25-2000	
	BD	6,072,579		Funato	06-06-2000	
	BE	6,144,472		Knox	11-07-2000	
	BF	6,151,144		Knox	11-21-2000	
	BG	6,185,215		Aho	02-06-2001	
	BH	6,246,026		Vergeest	06-12-2001	
	BI	6,246,680		Muller et al.	06-12-2001	
	BJ	6,314,210		Fukushima et al.	11-06-2001	
	BK	09/648,847		Mays	08-25-2000	
	BL	09/851,857		Mays	05-09-2001	
	BM	09/884,424		Mays	06-19-2001	
	BN	09/884,459		Mays	06-19-2001	

## PATENT PUBLICATIONS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>2</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

Examiner  
Signature

D. Payne

Date  
Considered

6/21/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

BEST AVAILABLE COPY